

REMARKS

At the outset, the Examiner is thanked for the thorough review and consideration of the pending application. The Office Action dated June 27, 2006, has been received and its contents carefully reviewed.

Claims 1-15 are rejected by the Examiner. Claims 1 and 7 have been amended. No new matter has been added. Claims 1-15 remain pending in this application.

In the Office Action, claims 1-5, 10 and 12 are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 5,514,503 to Evans et al. (hereinafter "Evans") in view of U.S. Patent No. 6,445,437 to Miyazaki et al. (hereinafter "Miyazaki"). Claims 6-9, 11 and 13-15 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Evans in view of Miyazaki and further in view of Japanese Publication No. 11-326621 to Aoki et al. (hereinafter "Aoki").

The rejection of claims 1-5, 10 and 12 under 35 U.S.C. § 103(a) as being unpatentable over Evans in view of Miyazaki is respectfully traversed and reconsideration is requested. Applicants submit that Evans and Miyazaki, analyzed singly or in combination, do not teach or suggest each claimed element.

Claim 1 recites a method of fabricating a color filter for a Liquid Crystal Display (LCD) device having a combination of features including "wherein the Red, Green, Blue colored inks are co-planar in the dummy area."

The Examiner correctly acknowledges that Evans does not explicitly disclose "providing a substrate, which is divided into an active area for realizing image and a dummy area for not realizing image areas." Accordingly, Applicants submit that Evans does not teach "wherein the Red, Green, Blue colored inks are co-planar in the dummy area" as recited in claim 1.

To cure the deficiency in the teaching of Evans, the Examiner cites Miyazaki. Applicants submit that Miyazaki does not teach an arrangement of colored inks in a dummy area "wherein the Red, Green, Blue colored inks are co-planar in the dummy area" as recited in claim 1. Applicants submit that Evans and Miyazaki, analyzed singly or in combination, do not teach or suggest all of the elements of claim 1. Accordingly, Applicants respectfully submit that claim 1, and claims 2-5 depending from claim 1 are allowable over Evans and Miyazaki.

Claims 10 and 12 each recite a color filter substrate for a Liquid Crystal Display (LCD) device having a combination of features including "Red, Green and Blue color filters on the

active area and the dummy area of the substrate.” Applicants submit that Evans does not teach this feature.

In the Office Action, the Examiner correctly states that Evans does not teach “providing a substrate, which is divided into an active area for realizing image and a dummy area for not realizing image areas.” Applicants submit that in addition to not disclosing a dummy area, Evans does not teach forming Red, Green and Blue color filters on the dummy area of the substrate.

The Examiner cites FIGs. 1 and 2 of Miyazaki et al as teaching, “wherein the off display area has a color filter area (33R, G, B).” Applicants respectfully disagree with the Examiner’s conclusion concerning the teaching of Miyazaki.

With regards to the structure cited by the Examiner as a color filter area, Miyazaki states the following, “A pillar diameter of the pillar-shaped spacer is 10 μm at 33R, 13 μm at 33G and 16 μm at 33B so that the diameter becomes larger with upper layers. With this arrangement, the pillar-shaped spacer 33 takes an inversely-tapered shape.” Applicants submit that the structure cited by the Examiner is a spacer and that the structure is not disclosed as having either the form or function of a color filter. Applicants submit that no portion of Miyazaki teaches or suggests “Red, Green and Blue color filters on ... the dummy area of the substrate.” Applicants submit that Evans and Miyazaki, analyzed singly or in combination do not teach at least “Red, Green and Blue color filters on the active area and the dummy area of the substrate,” as recited by claims 10 and 12. Accordingly, Applicants respectfully submit that claims 10 and 12 are allowable over Evans and Miyazaki.

The rejection of claims 6-9, 11, and 13-15 under 35 U.S.C. § 103(a) as being unpatentable over Evans in view of Miyazaki and further in view of Aoki is respectfully traversed and reconsideration is requested.

Claims 6 and 7 each recite a method of fabricating a color filter for a Liquid Crystal Display (LCD) device having a combination of features including “forming a black matrix between the Red, Green and Blue ink colored of the dummy area.” Claim 9 recites a method of fabricating a color filter for a Liquid Crystal Display (LCD) device having a combination of features including “forming a black matrix on the substrate between the Red, Green and Blue colored inks of the active area and the dummy area.” Claim 13 recites a color filter substrate for a Liquid Crystal Display (LCD) device having a combination of features including “wherein

the black matrix is formed on the substrate between the Red, Green and Blue colored filters of the dummy area.” In rejecting the claims, the Examiner correctly states that Evans and Miyazaki “do not explicitly disclose forming a black matrix between the Red, Green, and Blue ink/filter colored on the dummy area.”

The Examiner cites Aoki as teaching, “a black matrix (28) formed between colored filters (27-1-27-3).” Applicants submit that Aoki does not teach forming the black matrix between color filters in the dummy area. Applicants submit that Evans, Miyazaki, and Aoki, analyzed singly or in any combination do not teach or suggest the above identified elements of claims 6, 7, 9, and 13. Accordingly, Applicants respectfully submit that claims 6, 7, 9, and 13 are allowable over Evans, Miyazaki, and Aoki.

Applicants further submit that no motivation outside of the Applicants specification has been provided to combine the teachings of Evans and Miyazaki with the teachings of Aoki to make the combination recited in claims 6, 7, 9, and 13. As motivation for modifying the teachings of Evans and Miyazaki, the Examiner cites Aoki as teaching that forming a black matrix between color filters “is advantageous to prevent image distortion.” Applicants submit that there is no teaching in Aoki to form the black matrix between color filters in the dummy area, and that there is no teaching in Evans, Miyazaki or Aoki that forming a black matrix between color filters in the dummy area would prevent image distortion. Accordingly, Applicants submit that one of ordinary skill in the art at the time Applicants made their invention would not be motivated to combine the teachings of Evans and Miyazaki with the teachings of Aoki to make the combination recited in claims 6, 7, 9, and 13 to prevent image distortion. Accordingly, Applicants respectfully submit that claims 6, 7, 9, and 13 are allowable over Evans, Miyazaki, and Aoki for at least this additional reason.

Applicants note that Claims 6-8, 14, and 15 each depend from claim 1, and each includes all of the elements of claim 1 by reference.

Claim 1 recites a method of fabricating a color filter for a Liquid Crystal Display device having a combination of features including “wherein the Red, Green, Blue colored inks are coplanar in the dummy area.” As discussed above, Evans and Miyazaki do not teach the above identified combination of features recited in claim 1.

The Examiner cites Aoki as allegedly curing the deficiencies in the teachings of Evans and Miyazaki. Applicants submit that Aoki does not teach form the black matrix between color filters in the dummy area. Applicants further submit that Evans, Miyazaki, and Aoki, analyzed

singly or in any combination do not teach at least “wherein the Red, Green, Blue colored inks are co-planar in the dummy area.” Accordingly, Applicants respectfully submit that claim 1, and claims 6-8, 14, and 15 depending from claim 1 are allowable over Evans, Miyazaki, and Aoki.

Claim 9 recites “transferring the colored inks filled in the grooves of the cliché onto a printing roll by rotating the printing roll on the cliché in which the Red, Green and Blue colored inks are filled.” Claims 14 and 15 each recite “transferring the colored inks filled in the grooves of the cliché from the cliché onto a printing roll by rotating the printing roll on the cliché.” Applicants submit that Evans, Miyazaki, and Aoki, analyzed singly or in any combination do not teach a method including the above quoted processes. Accordingly, Applicants submit that claims 9, 14, and 15 are allowable over Evans, Miyazaki, and Aoki for at least this additional reason.

Claims 11 and 13 each depend from claim 10 and include by reference all of the elements of claim 10. As Applicants have discussed above Evans and Miyazaki do not teach all of the elements of claim 10.

The Examiner cites Aoki as teaching “a black matrix (28) between colored filters (27-1-27-3)”. Applicants submit that Aoki does not teach forming a black matrix between color filters in the dummy area for the reasons given above for claim 9. Applicants submit that Aoki does not cure the deficiencies in the teachings of Evans and Miyazaki identified above with respect to claim 10. Applicants submit that Evans, Miyazaki, and Aoki analyzed singly or in any combination do not teach at least “Red, Green and Blue color filters on the active area and the dummy area of the substrate” as recited in claim 10. Accordingly, Applicants respectfully submit that claim 10, and claims 11 and 13 depending therefrom are allowable over Evans, Miyazaki, and Aoki.

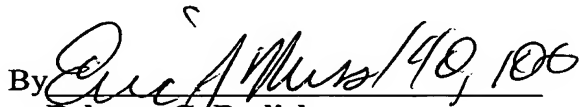
Applicants believe the application is in condition for allowance and early, favorable action is respectfully solicited.

If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at (202) 496-7500 to discuss the steps necessary for placing the application in condition for allowance. All correspondence should continue to be sent to the below-listed address.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. § 1.136, and any additional fees required under 37 C.F.R. § 1.136 for any necessary extension of time, or any other fees required to complete the filing of this response, may be charged to Deposit Account No. 50-0911. Please credit any overpayment to deposit Account No. 50-0911. *A duplicate copy of this sheet is enclosed.*

Respectfully submitted,

Dated: September 27, 2006

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